

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:)	
)	
Steven R. HETZLER et al.)	Group Art Unit: TBA
)	
Serial No.: TBA)	
)	Examiner: TBA
Filed: July 14, 2003)	
)	
For: RAID 3 + 3)	Atty Dkt No. ARC920030040US1
)	

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

Pursuant to 37 C.F.R. § 1.56 and in compliance with 37 C.F.R. § 1.97(b), Applicants submit herewith a Form PTO-1449 listing patents and publications for consideration in connection with the above-identified application. A copy of each patent and publication is provided herewith.

Applicants respectfully request that the Examiner consider and enter these documents into the file of the above-identified application. If any additional fee is deemed necessary, the Commissioner is authorized to charge Deposit Account No. 09-0441.

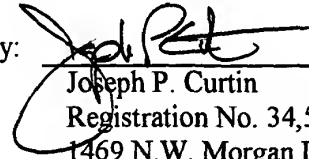
Applicants also wish to draw the Examiner's attention to the following related Patent Applications that are each co-pending, co-assigned and filed concurrently herewith: Patent Application Serial No. (Attorney Docket No. ARC9-2003-001-US1) entitled "Anamorphic Codes", Patent Application Serial No. (Attorney Docket No. ARC9-2003-0015-US1), entitled "Automatic Parity Exchange", and Patent Application Serial No. (Attorney Docket No. ARC9-2003-0016-US1), entitled "Multi-path Data Retrieval From Redundant Array." Additionally, Applicants wish to bring the Examiner's attention to related co-pending Patent Application Serial No. (Attorney Docket No. YOR9-2003-0069-US1).

A general authorization under 37 C.F.R. § 1.25(b), second sentence, is hereby given to credit or debit Deposit Account No. 09-0441 for the instant filing and for any other fees during the pendency of this application under 37 C.F.R. §§ 1.16, 1.17 and 1.18.

Respectfully submitted,

Dated: July 14, 2003

By:

A handwritten signature in black ink, appearing to read "J. P. Curtin", is written over a horizontal line.

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number TBA
		Filing Date July 14, 2003
		First Named Inventor Steven R. HETZLER
		Art Unit TBA
		Examiner Name TBA
		Attorney Docket Number ARC9-2003-0040-US1
Sheet	1	of 4

U. S. PATENT DOCUMENTS

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1	US- 5,134,619	07-28-1992	Henson et al.	
	2	US- 5,148,432	09-15-1992	Gordon et al.	
	3	US- 5,257,391	10-26-1993	DuLac et al.	
	4	US- 5,301,297	04-05-1994	Menon et al.	
	5	US- 5,398,253	03-14-1995	Gordon	
	6	US- 5,506,977	04-09-1996	Jones	
	7	US- 5,579,475	11-26-1996	Blaum et al.	
	8	US- 5,835,938	11-10-1998	Yamamoto et al.	
	9	US- 5,848,229	12-08-1998	Morita	
	10	US- 5,937,428	08-10-1999	Jantz	
	11	US- 6,070,249	05-30-2000	Lee	
	12	US- 6,138,125	10-24-2000	DeMoss	
	13	US- 6,154,853	11-28-2000	Kedem	
	14	US- 6,161,165	12-12-2000	Solomon et al.	
	15	US- 6,269,453 B1	07-31-2001	Krantz	
	16	US- 6,275,898 B1	08-14-2001	DeKoning	
	17	US- 6,279,138 B1	08-21-2001	Jadav et al.	
	18	US- 6,353,895 B1	03-05-2002	Stephenson	
	19	US- 6,530,004 B1	03-04-2003	King et al.	

FOREIGN PATENT DOCUMENTS

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Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.**

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Sheet	2	of	4
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Sheet	3	of	4	Attorney Docket Number		ARC9-2003-0040-US1	

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
	21	G.A. ALVAREZ et al., Tolerating Multiple Failures in RAID Architectures with Optimal Storage and Uniform Declustering, Computer Architecture News (USA), V. 25, #2, pp. 62-72, May 1972.		
	22	V. BOHOSSIAN et al., Computing in the RAIN: A Reliable Array of Independent Nodes, pp. 1-20, September 24, 1999.		
	23	P.M. CHEN et al., RAID: High-Performance, Reliable Secondary Storage, ACM Computing Surveys, Vol. 26, No. 2, pp. 146-185, June 1994.		
	24	M. HOLLAND et al., Parity Declustering for Continuous Operation in Redundant Disk Arrays, ACM 0-89791-535-6/92/0010/0023, pp. 23-35, October 1992.		
	25	N.K. OUCHI, Two-Level DASD Failure Recovery Method, IBM Technical Disclosure Bulletin, Vol. 36, No. 03, pp. 187-190, March 1993.		
	26	D.A. Patterson et al., A Case for Redundant Arrays of Inexpensive Disks (RAID), ACM 0-89791-268-3/88/0006/0109 1998.		
	27	J.S. PLANK, A Tutorial on Reed-Solomon Coding for Fault-Tolerance in RAID-like Systems, pp. 1-19, February 19, 1999.		
	28	E.J. SCHWABE et al., Evaluating Approximately Balanced Parity-Declustered Data Layouts for Disk Arrays, ACM 0-89791-813-4/96/05, pp. 41-54, 1996.		
	29	E.J. SCHWABE et al., Flexible Usage of Parity Storage Space in Disk Arrays, ACM 0-89791-809-6/96/06, pp. 99-108, 1996.		
	30	L. Xu et al., X-Code: MDS Array Codes with Optimal Encoding, IEEE Trans. On Information Theory, Vol. 45, No. 1, pp. 272-276, January 1999.		

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Sheet	4	of	4	Attorney Docket Number	ARC9-2003-0040-US1

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	31	M. Blaum et al., "MDS Array Codes with Independent Parity Symbols," IEEE Trans. on Information Theory, Vol.IT-42, pp. 529 542, March 1996.	
	32	M. Blaum et al., "The EVENODD Code and its Generalization," High Performance Mass Storage and Parallel I/O: Technologies and Applications,' edited by H. Jin et al., IEEE & Wiley Press, New York, Chapter 14, pp. 187 208, 2001.	
	33	M. Blaum et al., "EVENODD: An Efficient Scheme For Tolerating Double Disk Failures In A RAID Architecture," IEEE Trans. on Computers, Vol. 44, No. 2, pp. 192-202, Feb. 1995.	

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